

[Second Edition.]

# PATENT SPECIFICATION



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## PROVISIONAL SPECIFICATION

### Toilet and Cosmetic Preparations

I, LUDWIG SCHÖN, a German Citizen, of 42, Norrice Lea, London, N.2, do hereby declare the nature of this invention to be as follows:—

5 This invention relates to toilet and cosmetic preparations such as hair oils, hair creams, cold creams, vanishing or cleansing creams and the like.

The toilet and cosmetic preparations 10 of the present invention comprise as an essential ingredient, ethyl oleate which is chemically stable, very similar to fats in chemical constitution, harmless to the skin, of a pleasant odour and of comparatively low viscosity.

A hair oil in accordance with the 15 present invention comprises for example, a mixture, in any desired proportions of ethyl oleate with a non-drying vegetable oil such as castor oil, olive oil, sesame oil, almond oil, ground nut oil or arachis oil. Such oils are normally too greasy for use in cosmetics such as hair preparations but constitute excellent

hair preparations when combined with 25 ethyl oleate.

Suitable examples of hair oils in accordance with the invention are:

70% of ethyl oleate and 30% of castor oil

30 50% of ethyl oleate and 50% of olive oil

40% of ethyl oleate and 60% of almond oil.

A hair cream in accordance with the 35 invention comprises for example, an aqueous emulsion of ethyl oleate with any suitable proportion of water and a small proportion of an emulsifying agent such as a sulphonated oil.

If desired, other substances such as 40 fats, waxes, vegetable or mineral oils may be incorporated with preparations in accordance with the invention.

Dated this 8th day of January, 1943.

ALBERT L. MOND & THIEMANN,  
14 to 18, Holborn, London, E.C.1.

Agents for the Applicant.

## COMPLETE SPECIFICATION

### Toilet and Cosmetic Preparations

45 I, LUDWIG SCHÖN, a German Citizen, of 42, Norrice Lea, London, N.2, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to toilet and cosmetic preparations, such as hair oils, hair creams, cold creams, vanishing 55 creams, cleansing creams, lipsticks and the like.

The toilet and cosmetic preparations of the present invention comprise as essential ingredients methyl or ethyl oleate or a mixture of said oleates, and a vegetable or animal oil.

Both methyl and ethyl oleate are chemically stable, non-volatile, very similar to fats in chemical constitution

and of comparatively low viscosity.

I have discovered that both methyl and ethyl oleate have the property of diluting vegetable and animal oils, such as castor oil or sperm oil, which are normally too viscous, sticky or greasy 70 to enable them to be used with very good success as ingredients in toilet and cosmetic preparations. Such oils have hitherto been broken down in various preparations, with volatile solvents 75 in order to reduce their viscosity. These solvents actually dissolve the oils, yielding solutions of lower viscosity than that of the respective oil. However, such solutions are of relatively little use since 80 the volatile solvent readily evaporates, leaving the original oil behind.

In contradistinction to volatile solvents, methyl and ethyl oleates, when

[Price] 4s 6d

added to viscous oils, act purely as diluents, substantially reducing the viscosity of the oils, and as such oleates are non-volatile, the resulting liquids are 5 eminently suitable for toilet and cosmetic preparations.

In carrying out my invention, it is preferable to subject the commercial methyl or ethyl oleates to a preliminary 10 purification in order to remove any volatile malodorous constituents which may be present therein. Such purification can be effected for example, by passing super-heated steam at a temperature of between 120° and 150°C. through the commercial product for a period of about 6 hours. A purified product of a pleasant odour is thus obtained.

In the manufacture of toilet and cosmetic preparations, in accordance with 20 the invention, methyl or ethyl oleate is mixed in any desired proportions, with a vegetable or animal oil such as castor oil, olive oil, sesame oil, linseed oil, 25 almond oil, ground nut oil, arachis oil or sperm oil, other ingredients such as perfumes, fats, waxes, or mineral oils being incorporated if desired.

Most of the aforementioned oils are too 30 viscous, greasy or sticky for normal use as hair oils, but yield excellent hair preparations when mixed with methyl or ethyl oleates.

Suitable examples of hair oils in 35 accordance with the invention are:—

40 parts by weight of ethyl oleate and  
60 parts by weight of castor oil;  
25 parts by weight of methyl oleate

and

40 75 parts by weight of olive oil;  
15 parts by weight of ethyl oleate and  
85 parts by weight of almond oil.

I have also discovered that the diluent action of methyl and ethyl oleate 45 on viscous vegetable and animal oils persists in aqueous emulsion and that aqueous emulsions containing vegetable or animal oil in conjunction with methyl or ethyl oleate or both, are excellently 50 suitable for use as hair creams, cold creams, vanishing lipsticks and the like.

As previously stated, other substances such as fats, waxes, vegetable, animal or mineral oils, perfumes, medicaments 55 and the like may be incorporated with the preparations of the present invention.

The invention will be further illustrated by the following examples:—

#### EXAMPLE 1.

25 parts by weight of white beeswax; 60  
18 parts by weight of castor oil;  
7 parts by weight of ethyl oleate;  
1.5 parts by weight of borax;  
48.5 parts by weight of water 65  
were heated together whilst stirring, until a uniform emulsion was formed, which when cooled, constituted an excellent cold cream.

#### EXAMPLE 2.

20 parts by weight of stearic acid; 70  
1 part by weight of cetyl alcohol;  
2 parts by weight of linseed oil;  
1 part by weight of ethyl oleate;  
5 parts by weight of glycerin; 75  
1 part by weight of potassium hydroxide;

70 parts by weight of water  
were heated together whilst stirring, 80 until a uniform emulsion was formed, which when cooled, constituted an excellent vanishing cream.

#### EXAMPLE 3.

12 parts by weight of triethanolamine 85  
stearate;  
3 parts by weight of spermaceti;  
12 parts by weight of castor oil;  
8 parts by weight of ethyl oleate;  
65 parts by weight of water  
were heated together whilst stirring, 90 until a uniform emulsion was formed, which when cooled, constituted an excellent hair cream.

#### EXAMPLE 4.

8 parts by weight of glyceryl mono- 95  
stearate;  
2 parts by weight of cetyl alcohol;  
8 parts by weight of sperm oil;  
4 parts by weight of ethyl oleate  
78 parts by weight of water, 100  
were heated together whilst stirring until a uniform emulsion was formed, which when cooled, constituted an excellent hair cream.

#### EXAMPLE 5.

33 parts by weight of beeswax; 105  
4 parts by weight of spermaceti;  
25 parts by weight of castor oil;  
12 parts by weight of sesame oil;  
6 parts by weight of ethyl oleate; 110

10 parts by weight of finely ground red pigment were heated together whilst stirring, until a uniform emulsion was formed, which when cooled, constituted a composition suitable for use as lipstick. 115

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A toilet or cosmetic preparation com-

prising as essential ingredients methyl or ethyl oleate or a mixture of said oleates and a vegetable or animal oil.

2. A toilet or cosmetic preparation as claimed in Claim 1, comprising an aqueous emulsion of methyl or ethyl oleate or of a mixture of said oleates.

3. A toilet or cosmetic preparation as claimed in Claim 1 or 2, in which the methyl or ethyl oleate is used in a previously refined form.

4. A method of rendering viscous vegetable or animal oils suitable for use

for toilet or cosmetic preparations which comprises incorporating therewith methyl or ethyl oleate or a mixture of said oleates. 25

5. Toilet and cosmetic preparations, substantially as described with reference to the foregoing Examples. 20

Dated this 10th day of January, 1944.

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